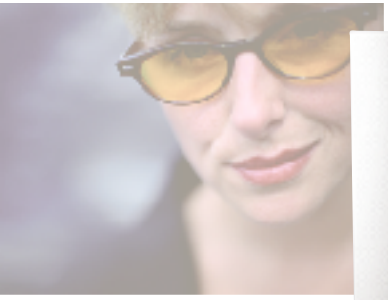
Your Gateway 23" and 26" LCD TV

user's guide



Setting up | Troubleshooting | Gateway

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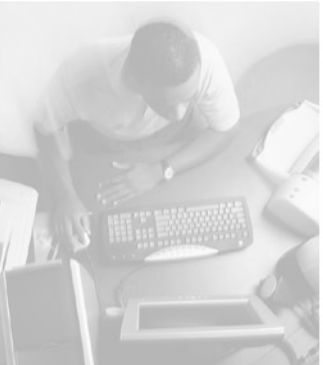
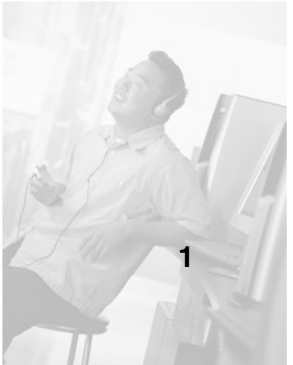
1 Introducing Your Gateway LCD TV

This chapter provides basic information about your Gateway LCD TV.

Read this chapter to learn about:

- Features
- Warnings and safeguards
- Package contents
- Controls and connections





Features

Your LCD TV features:

- A bright, flicker-free image
- Automatic detection and conversion of film content for correct display with minimal motion artifacts (noise)
- Accurate color processing
- One component video input source that automatically synchronizes the display to match the incoming source
- Two composite video input sources, with one that automatically synchronizes the display to match the incoming source
- HDTV signal compatibility using an external HDTV decoder with component video outputs
- A built-in 3D sound processor that simulates “surround” effects using only two speakers
- A built-in Digital Visual Interface (DVI) to eliminate the need for digital-to-analog conversion
- 1280 × 769 SXGA support for computer input
- 480p support for EDTV signals
- 720p and 1080i support for HDTV signals

Important safeguards

Warning

Risk of electric shock - Do not open

To reduce the risk of electric shock, do not remove the back cover. There are no user-serviceable parts inside. Removing the back cover voids the warranty.

Have your LCD TV repaired by qualified service personnel only.

Warnings and precautions

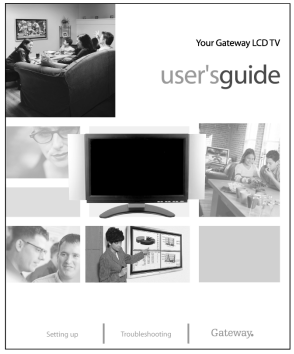
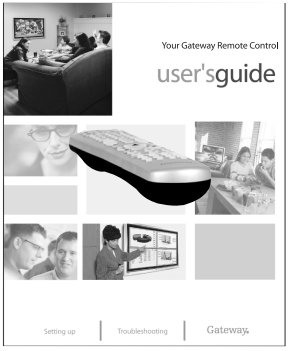
- Do not place your hands, face, or objects close to the ventilation openings of your LCD TV. The top of your LCD TV gets very hot from exhaust air that is released through the ventilation openings. Burns or personal injuries may occur if you are too close to the LCD TV. Damage may occur if you place any object near the top of your LCD TV.
- Disconnect all cables before moving your LCD TV. Moving your LCD TV with its cables attached may damage the cables and cause fire or electric shock danger.
- Do not expose your LCD TV to rain or moisture.
- Keep your LCD TV away from excessive dust, high temperatures, moisture, or direct sunlight.
- Use your LCD TV in a well-ventilated area and do not cover the ventilation openings.
- Do not modify your LCD TV or use an unshielded power cord or video input source cable, or you may experience excessive interference.
- Disconnect your LCD TV and unplug the power cord when the TV is not used for a long period of time.
- If the picture displayed is in any way abnormal, turn off your LCD TV, then disconnect it from the electrical outlet. Make sure that your video input source cable is connected correctly, then reconnect your LCD TV to the electrical outlet.
- Disconnect your LCD TV from the electrical outlet before cleaning or performing maintenance. Do not use liquid or aerosol cleaners. Use only a slightly damp cloth for cleaning.
- Do not place your LCD TV on an unstable cart, stand, or table. Your LCD TV may fall, causing serious damage.

- Do not place your LCD TV on a bed, sofa, rug, or other similar surfaces.
- Never place your LCD TV near or over a radiator or heat source.
- Do not install your LCD TV in an enclosed area unless correct ventilation is provided.
- Your LCD TV should be operated from the type of power source indicated on the label. If the type of available power is unknown, consult your electrician or local power company.
- Your LCD TV is equipped with a 3-pin grounded plug. The plug will only fit into a grounded power outlet. This is a safety feature. If you cannot plug the power cord into the outlet, contact your electrician. Do not alter the plug because this will defeat the safety feature.
- Do not rest objects on the power cord and avoid placing the power cord near high traffic areas.
- Do not overload wall outlets and extension cords because this can result in a risk of fire or electric shock.
- Unplug your LCD TV and contact qualified service personnel if:
  - The power cord or plug is damaged or frayed.
  - Liquid has been spilled into your LCD TV.
  - Your LCD TV has been exposed to water or moisture.
  - Your LCD TV does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions. Incorrect adjustment of other controls may result in damage which often requires extensive work by a qualified technician to restore your LCD TV to normal operation.
  - Your LCD TV has been dropped or the cabinet has been damaged.

Package contents

Along with your LCD TV, the packaging box contains the following items:

Remote control	
Two AA batteries	
CATV cable	

Composite cable (AV cable)	
Power cord	
TV antenna cable	
User guide and Remote control user guide	 and 

Accessories

You can purchase these optional accessories for your LCD TV:

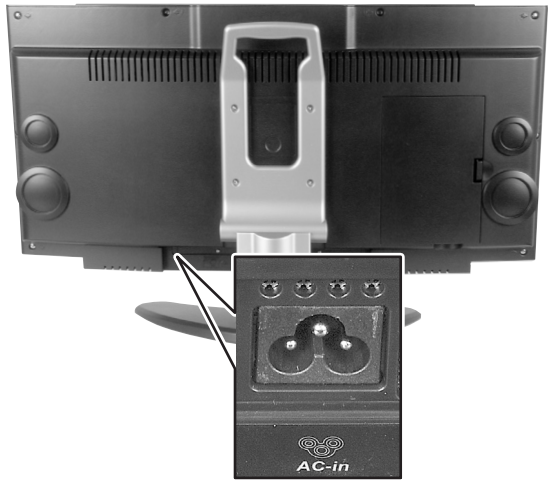
- **Cable kits**. Gateway cable kits consist of high-quality gold cables of various lengths, including:
  - DVI-D video cable
  - RCA audio cable
  - RCA component video cable
  - RCA composite video cable
  - S-Video cable
  - VGA video cable
- **Wall mount kit.** The wall mount kit contains all of the required hardware for mounting your LCD TV on your wall. (Gateway recommends you use a qualified installer.) For more information, see the Wall Mount Installation Guide at www.support.gateway.com/support/manlib/.

Contact Gateway for these and other accessories.

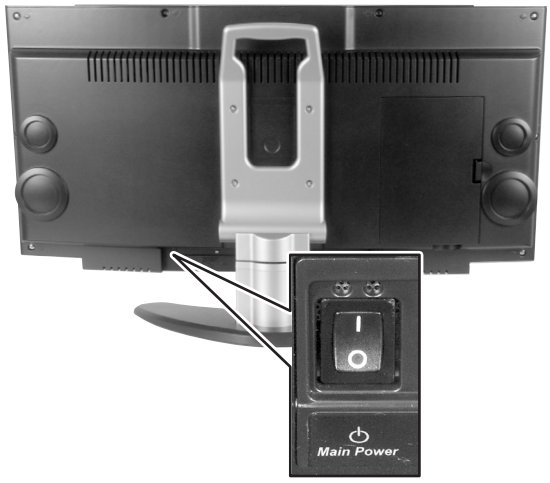
Turning on the main power

To turn on the power:

1 Connect the power cord to the power cord connector on the back of your LCD TV, then plug the other end of the power cord into a correctly grounded electrical outlet or surge protector.



2 Press the **Main Power** switch. The Status LED on the front turns orange and your LCD TV is ready to turn on.



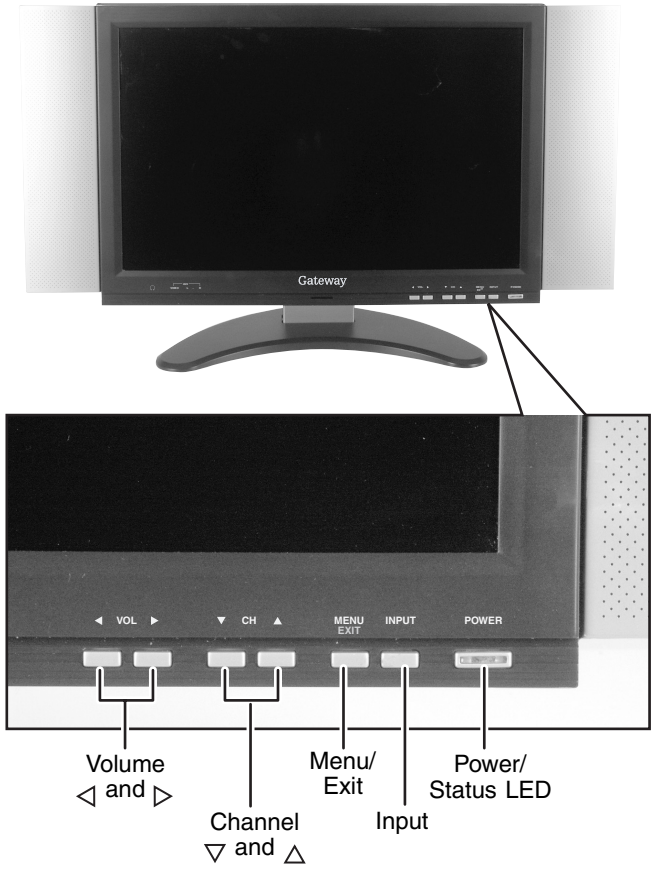
3 Press the **POWER** button on the front of your LCD TV. The Status LED on the front turns green.

Warning

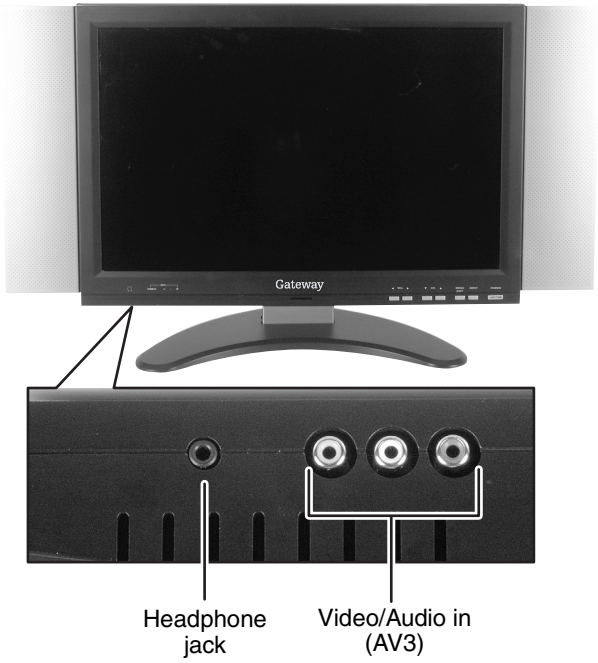
If you will be away for an extended period of time, turn off your LCD TV with the Main Power switch instead of using the remote control or front POWER button.

For added protection during a lightning storm or when it is left unattended or unused for long periods of time, unplug your LCD TV from the wall outlet and disconnect the antenna or cable system.

Front panel controls

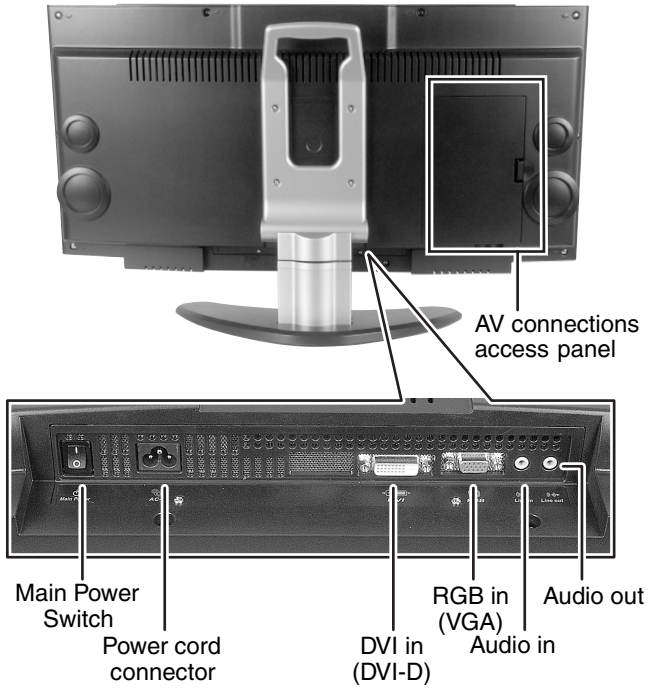


Button	Description
Volume ◁ and ▷	Increases or decreases the volume. OSD active: Opens and adjusts OSD options. For more information, see “Using the OSD” on page 28.
Channel ▽ and △	Changes the channel. OSD active: Selects OSD options. For more information, see “Using the OSD” on page 28.
Menu/Exit	Opens and closes the on-screen display (OSD). For more information, see “Using the OSD” on page 28.
Input	Switches between available input sources.
Power/Status LED	Turns your LCD TV on and off after the MAIN switch is turned on. When you turn your LCD TV on or off, wait three seconds before pressing this button again. ▪ Not lit - The power cable is not connected or the Main Power switch is off. ▪ Solid orange - The Main Power switch is on and the POWER button is off. ▪ Solid green - Your LCD TV is on.



Connector	Description
Headphone jack	Plug headphones in here. The built-in speakers are disabled.
Video/Audio in	Connects to a composite audio/video device, such as a video camcorder or digital camera. You can also set this up to function as audio/video out, see “Using the OSD” on page 28.

Back connections



Connector	Description
Main power switch	Turns main power off and on.
Power cord connector	Plug the power cable in here.
DVI in	Connects to a DVI video device, such as a computer or set-top box.
RGB in	Connects to an RGB video device, such as a computer or set-top box.
Audio in	Connects to your computer's audio out jack.
Audio out	Connect an external amplifier or speakers here.

Connector	Description
UHF/VHF	Connects to a VHF/UHF antenna or cable TV.
S-Video	Connects to an S-Video device, such as a VCR, satellite dish receiver, or digital cable box.
Composite Video/Audio in	Connects to a composite audio/video device, such as a VCR or DVD player.
Component HDTV Video/Audio in	Connects to a component video device, such as an HDTV set-top box or progressive-scan DVD player. Supports 480i, 480p, 720p, and 1080i signals.
Subwoofer	Connects to a subwoofer.

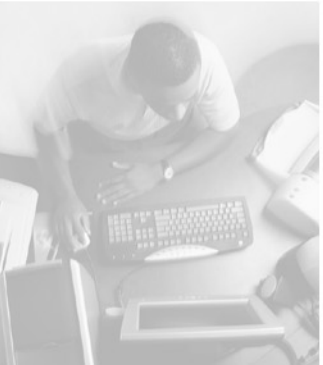
2 Connecting Components

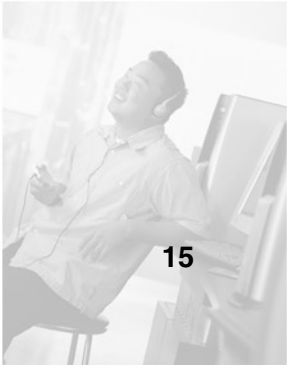
Read this chapter to learn how to connect:

- DVD players
- HDTV decoder set-top boxes
- VCRs
- Off-air TV and cable TV
- Computers

Warning

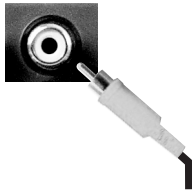
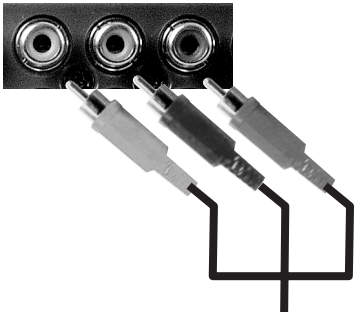
Before connecting any external components, unplug your LCD TV.





Understanding video connections

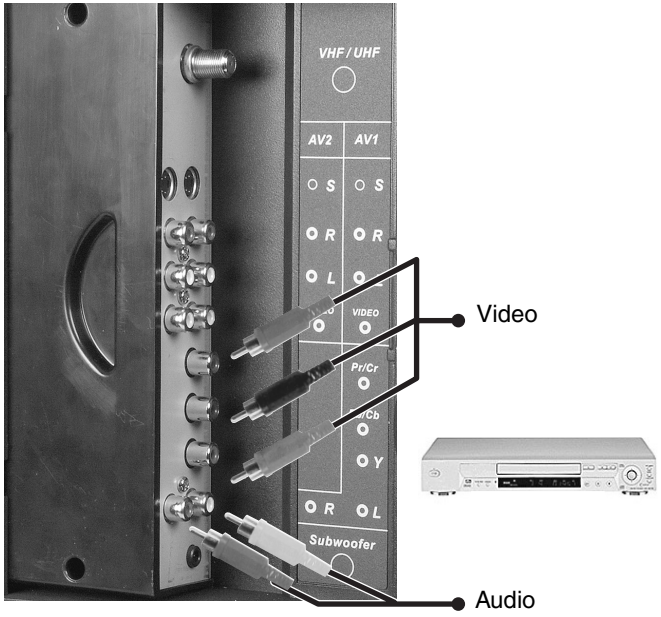
Your LCD TV has four types of standard video connections. You should use the best connection available to get the best display. For example, if your DVD player supports a component video connection, connect the DVD player to your LCD TV using component video instead of composite video or S-Video.

Connection Quality	Cable and Connector	Description
Basic		**Coaxial (RF).** The video and audio signals are both carried in one cable (the other three connection types only handle video, and require separate connections for sound). Coaxial is the only way to connect an antenna to your LCD TV.
Good		**Composite**. The video signal is carried through a single “pin.” This connection method is the one that is most commonly found on devices.
Better		**S-Video.** The video signal is split into two signals, black-and-white and color. Text displayed on-screen through this connection will be noticeably sharper then composite or coaxial (RF).
Best		**Component.** The video signal is split into three signals, two color, and one black-and-white. Use component video to take advantage of the superior picture provided by signal sources such as HDTV and *progressive* DVD.

Connecting your DVD player

Using component video

To connect your DVD player using component DVD video:



1. Connect the green-colored Y jack on the back of your DVD player to the green-colored Y jack on the back of your LCD TV.
2. Connect the red-colored P_R or C_R jack on the back of your DVD player to the red-colored P_RC_R jack on the back of your LCD TV.
3. Connect the blue-colored P_B or C_B jack on the back of your DVD player to the blue-colored P_BC_B jack on the back of your LCD TV.
4. Connect the red (R) and white (L) audio jacks on the back of your DVD player to the R and L audio-in jacks on the back of your LCD TV.
5. Turn on your LCD TV (see "Turning on the main power" on page 8), then press the **INPUT** button repeatedly to select **YPBPR**.

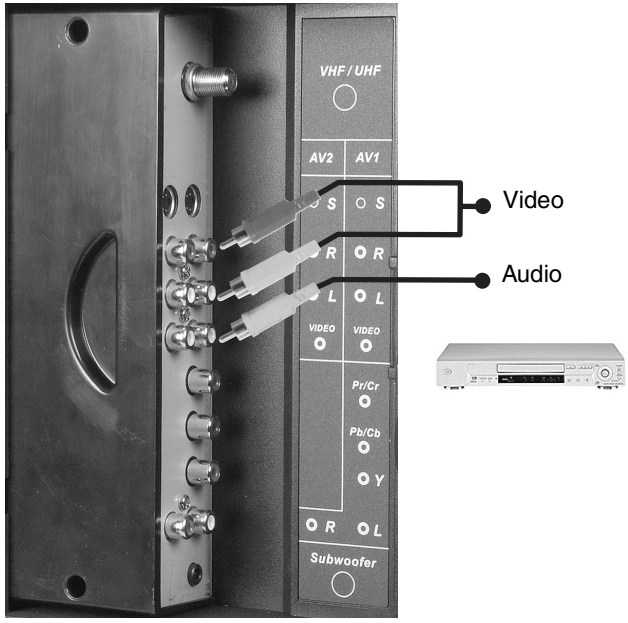
Using S-Video

To connect your DVD player using S-Video:

1. Connect the S-Video jack on the back of your DVD player to one of the S-VIDEO jacks on the back of your LCD TV.
2. Connect the red (R) and white (L) audio jacks on the back of your DVD player to the AV1 or AV2 R and L audio-in jacks on the back of your LCD TV.
3. Turn on your LCD TV (see "Turning on the main power" on page 8), then press the **INPUT** button repeatedly to select **AV1/S1** or **AV2/S2**.

Using composite video

To connect your DVD player using composite video:

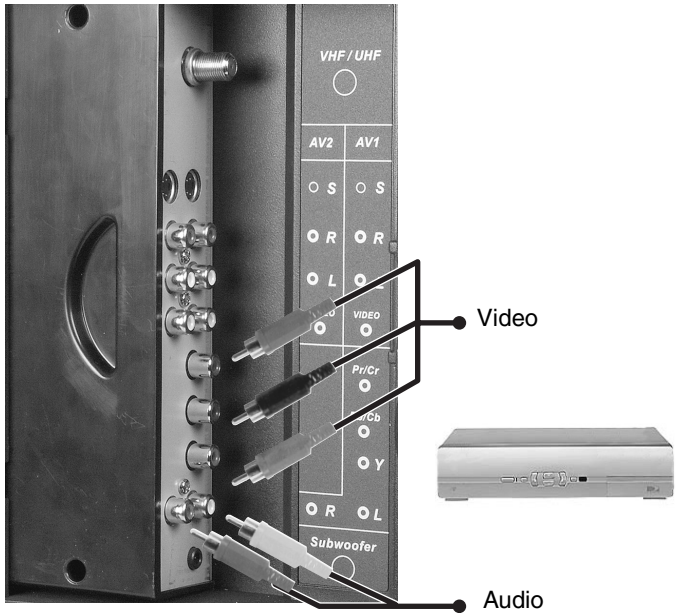


1. Connect the yellow video jack on the back of your DVD player to the yellow AV1 or AV2 jack on the back of your LCD TV.
2. Connect the red (R) and white (L) audio jacks on the back of your DVD player to the AV1 or AV2 R and L audio-in jacks on the back of your LCD TV.
3. Turn on your LCD TV (see "Turning on the main power" on page 8), then press the **INPUT** button repeatedly to select **AV1/S1** or **AV2/S2**.

Connecting your HDTV set-top box

Using component video

To connect your HDTV decoder set-top box using component video:



1. Connect the green Y jack on the back of your HDTV set-top box to the green Y jack on the back of your LCD TV.
2. Connect the red P_R or C_R jack on the back of your HDTV set-top box to the red P_RC_R jack on the back of your LCD TV.
3. Connect the blue P_B or C_B jack on the back of your HDTV set-top box to the blue P_BC_B jack on the back of your LCD TV.
4. Connect the red (R) and white (L) audio jacks on the back of your HDTV set-top box to the R and L audio-in jacks on the back of your LCD TV.
5. Turn on your LCD TV (see "Turning on the main power" on page 8), then press the **INPUT** button repeatedly to select **YPBPR**.

Connecting your VCR or video camera

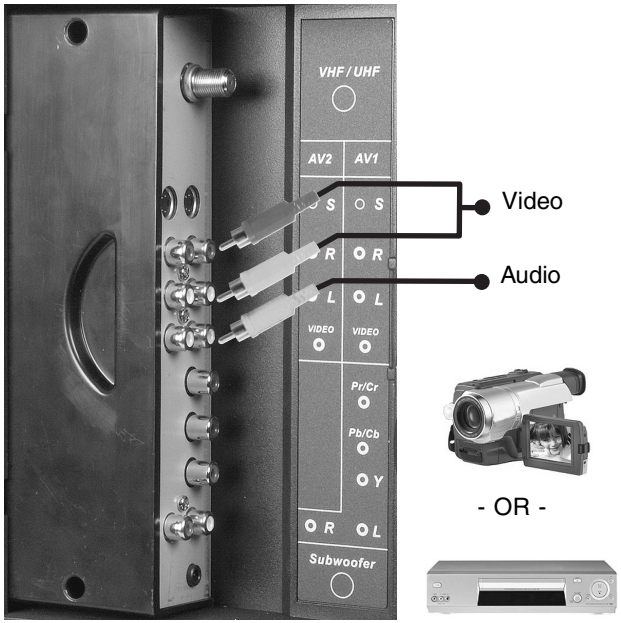
Using S-Video

To connect your VCR or video camera using S-Video:

1. Connect the S-Video jack on the back of your VCR or video camera to one of the S-VIDEO jacks on the back of your LCD TV.
2. Connect the red (R) and white (L) audio jacks on the back of your VCR or video camera to the AV1 or AV2 R and L audio-in jacks on the back of your LCD TV.
3. Turn on your LCD TV (see "Turning on the main power" on page 8), then press the **INPUT** button to select **AV1/S1** or **AV2/S2**.

Using composite video

To connect your VCR or video camera using composite video:



1. Connect the yellow video jack on the back of your VCR or video camera to the yellow AV1 or AV2 jack on the back of your LCD TV.
2. Connect the red (R) and white (L) audio jacks on the back of your VCR or video camera to the AV1 or AV2 R and L audio-in jacks on the back of your LCD TV.
3. Turn on your LCD TV (see "Turning on the main power" on page 8), then press the **INPUT** button repeatedly to select **AV1/S1** or **AV2/S2**.

Using coaxial (RF)

To connect your VCR using coaxial (RF) audio and video:

1 Connect the "output to TV" (RF out or Antenna out) jack on the back of your VCR to the UHF/VHF jack on the back of your LCD TV.

2 Turn on your LCD TV (see "Turning on the main power" on page 8), then press the **INPUT** button repeatedly to select **CATV**.

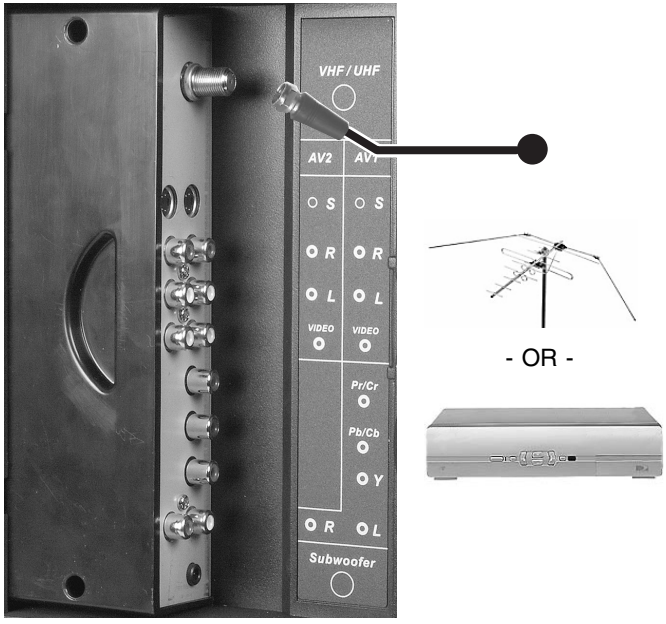
If you have an off-air antenna or cable box, connect your off-air antenna or cable TV cable to the UHF/VHF connector on the back of your VCR.

Warning

If an outdoor antenna or cable system is connected to your LCD TV, make sure that the antenna or cable system is correctly grounded. For more information, see "Television antenna connectors protection (for systems fitted with TV/cable TV tuner cards)" on page 40.

Connecting off-air TV or cable TV

To connect off-air TV or cable TV using coaxial (RF) audio and video:



1. Connect the coaxial (RF) connector from your antenna or cable box to the HF/VHF connector on the back of your LCD TV.
2. Turn on your LCD TV (see "Turning on the main power" on page 8), then press the **INPUT** button repeatedly to select **CATV**.

If you have connected a VCR to the UHF/VHF connector on the back of your LCD TV, connect your off-air TV or cable TV cable to the UHF/VHF connector on the back of your VCR.

Warning

If an outdoor antenna or cable system is connected to your LCD TV, make sure that the antenna or cable system is correctly grounded. For more information, see "Television antenna connectors protection (for systems fitted with TV/cable TV tuner cards)" on page 40.

Connecting a computer

Using DVI video

To connect your computer using DVI video:

1. Connect the DVI connector on your computer to the DVI connector on the back of your LCD TV.
2. Connect the Audio Out jack on your computer to the Line in jack on the back of your LCD TV. See “Back connections” on page 13 for the location of the Line in jack.
3. Turn on your LCD TV (see “Turning on the main power” on page 8), then press the **INPUT** button repeatedly to select **DVI-D**.

Tips & Tricks

The DVI port supports High-bandwidth Digital Content Protection (HDCP). HDCP encrypts the transmission between the video source and the digital display for added security and protection.

Using RGB video

To connect your computer using RGB video:

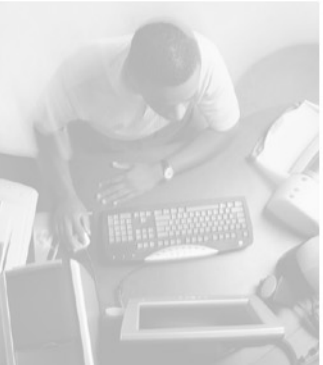
1. Connect the 15-pin D-Sub RGB connector on your computer to the RGB connector on the back of your LCD TV.
2. Connect the Audio Out jack on your computer to the Line in jack on the back of your LCD TV. See “Back connections” on page 13 for the location of the Line in jack.
3. Turn on your LCD TV (see “Turning on the main power” on page 8), then press the **INPUT** button repeatedly to select **VGA**.

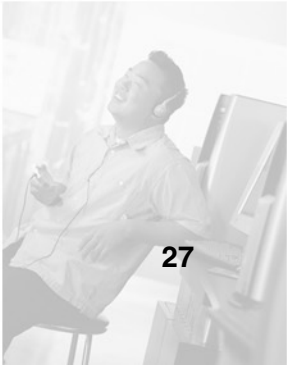
Adjusting Your LCD TV Settings

3

Read this chapter to learn how to adjust your LCD TV settings from the on-screen display (OSD).

You can also use your remote control to change some settings. For more information, see *Your Gateway Remote Control User's Guide*.





Using the OSD

Your LCD TV features an on-screen display (OSD) that lets you adjust and save contrast, brightness, and other settings. Your LCD TV saves changes you make to the settings, even if you turn off your TV.

To adjust settings from the OSD:

1 Press the **MENU/EXIT** button on the front of your LCD TV. The Main menu opens.

2 Press the **CHANNEL** ▽ and △ buttons on the front of your LCD TV to select the menu you want.

3 Press the **VOLUME** ◁ or ▷ buttons on the front of your LCD TV to open the menu.

4 Press the **CHANNEL** ▽ and △ buttons on the front of your LCD TV to select the menu option you want.

5 Press the **VOLUME** ◁ or ▷ buttons on the front of your LCD TV to adjust the option setting.

6 Press the **MENU/EXIT** button on the front of your LCD TV to return to the previous menu option.

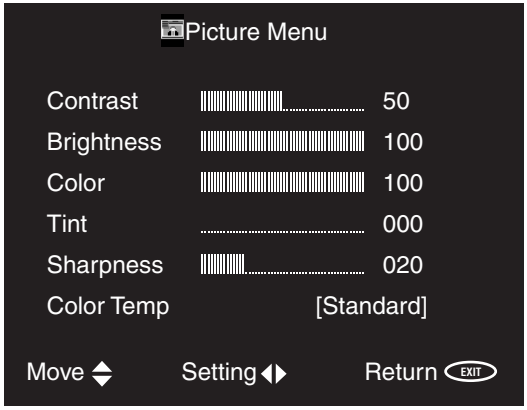
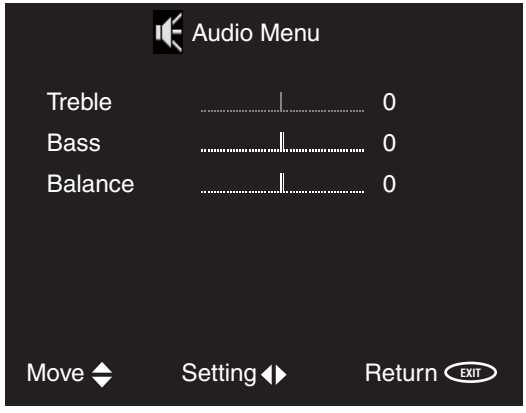
- OR -

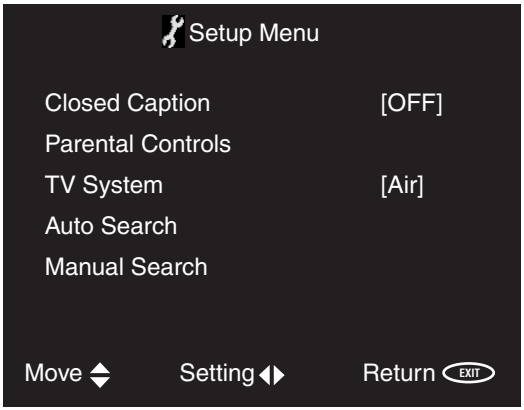
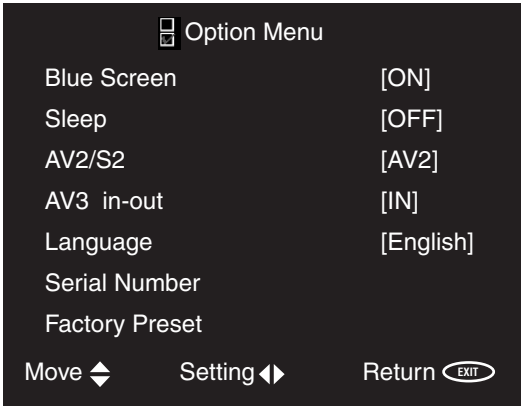
Press the **MENU/EXIT** button twice to close the OSD.

OSD menus and options

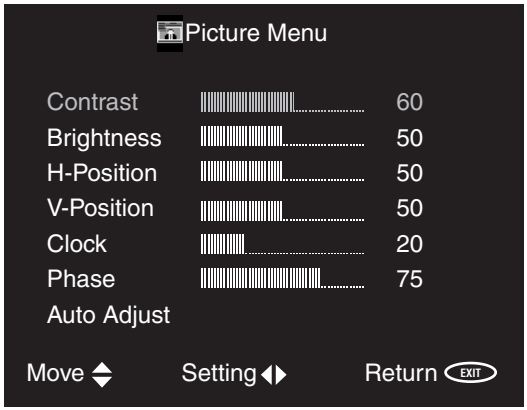
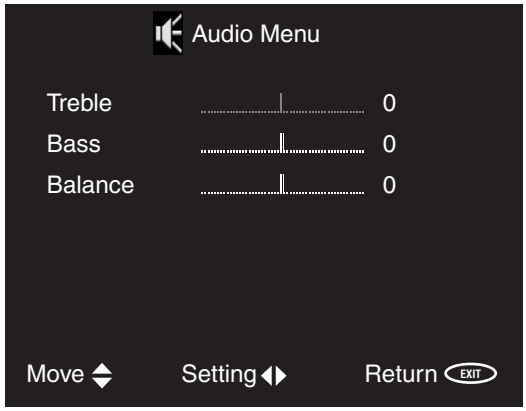
You can use these OSD menus and options to adjust various settings for your LCD TV.

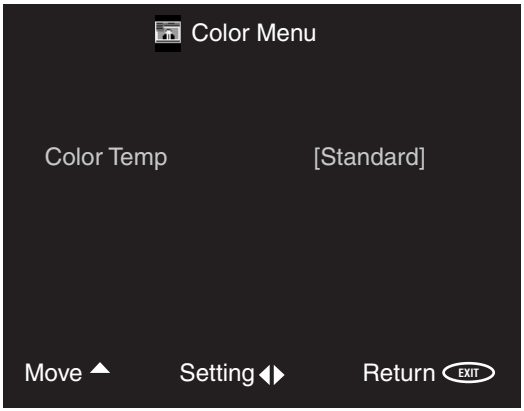
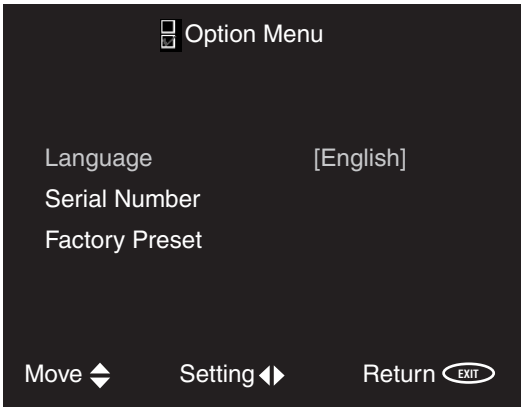
CATV, AV1/S1, AV2/S2, YPBPR

OSD Menu	Description
Picture 	**Contrast.** Adjusts the contrast of the picture. **Brightness.** Adjusts the brightness of the picture. **Color.** Adjusts the color saturation, making colors more intense. **Tint.** Adjusts the color of flesh tones. **Sharpness.** Adjust the amount of detail enhancement. **Color Temp.** Adjusts the white balance. Choose Standard, Warm, or Cold.
Audio 	**Treble.** Adjusts the treble. **Bass.** Adjusts the bass. **Balance.** Adjusts the balance level between the speakers.

OSD Menu	Description
SETUP  	**Closed Caption.** Turns captioning on and off and selects the closed caption style. **Parental Controls.** Activates parental controls. You need the remote control to use this option. For more information, see *Your Gateway Remote Control User's Guide*. PIP mode does not work when parental controls are turned on. **TV System.** Sets the source for the tuner. Select Cable, HRC, or IRC (for cable or a satellite dish) or Air (for an antenna). **Auto Search.** When this option is selected, your LCD TV adds all channels that have a signal to the channel list. **Manual Search.** When this option is selected, you can add specific channels to the channel list.
Option  	**Blue Screen.** When this option is turned on, your LCD TV displays a blue screen when there is no available signal. **Sleep.** Turns the sleep timer on and off. Select 30, 60, 90 or 120 minutes. **AV2/S2.** Selects the primary input mode for the AV2 connection. **AV3 in-out.** Sets AV3 connectors on the bottom front of your LCD TV as an AV in or AV out connection. **Language.** Changes the language of the OSD menu. Choose between English, French, or Spanish. **Serial Number.** Displays the serial number of your LCD TV. **Factory Preset.** Resets picture settings to the factory default.

DVI-D and VGA modes

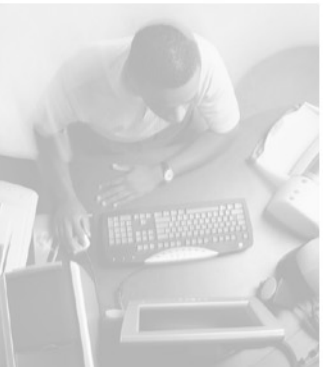
OSD Menu	Description
Picture 	**Contrast.** Adjusts the contrast of the picture. **Brightness.** Adjusts the brightness of the picture. **H-Position.** Adjusts the horizontal screen position. **V-Position.** Adjusts the vertical screen position. **Clock.** Adjusts your LCD TV to match the video input source. **Phase.** Removes any horizontal distortion and clears or sharpens the displayed characters. **Auto Adjust.** Automatically adjusts the display image position, clock, and phase.
Audio 	**Treble.** Adjusts the treble. **Bass.** Adjusts the bass. **Balance.** Adjusts the balance level between the speakers.

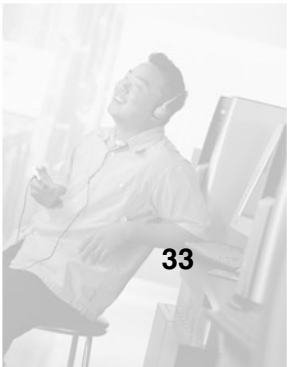
OSD Menu	Description
SETUP 	**Color Temp.** Adjusts the white balance. Choose Standard, Warm, or Cold.
Option 	**Language.** Changes the language of the OSD menu. Choose between English, French, or Spanish. **Serial Number.** Displays the serial number of your LCD TV. **Factory Preset.** Resets picture settings to the factory default.

Maintenance and Troubleshooting

4

Read this chapter to learn how to maintain and troubleshoot your LCD TV.





Cleaning and maintenance

Cleaning the screen

- Do not use substances such as glass cleaners, solvents, and thinners.
- The screen of your LCD TV has been specially treated. Wipe the surface gently using only a cleaning cloth or a soft, lint-free cloth.
- If the surface is particular dirty, use a soft cloth and water to clean the screen. Squirt a little water on the cloth (never directly on the screen), then wipe the screen with the cloth.

Warning

The screen of your LCD TV is made of specially coated glass and can be scratched or damaged by abrasive or ammonia-based window cleaners.

Scratches on the bezel or glass are not covered by your warranty.

- Do not scratch or hit the surface of the screen with your fingers or any hard objects.

Cleaning the exterior

- Your LCD TV is cooled by air circulated through the vents on the case, so keep the vents free of dust. With your LCD TV turned off and unplugged, brush the dust away from the vents with a damp cloth. Be careful not to drip any water into the vents. Do not attempt to clean dust from the inside of your LCD TV.
- Do not use abrasive or solvent cleaners because they can damage the finish on components.
- Do not allow any excessive water or moisture to come into contact with the surface of your LCD TV. If water or moisture gets inside your LCD TV, operating problems and electrical and shock hazards may result.
- Do not scratch or hit the cabinet with your fingers or any hard objects.
- Do not place articles made from rubber or PVC near the cabinet for any extended periods of time.

Troubleshooting

Use the following information to solve common problems.

You cannot see a picture

- Make sure that the power cord is plugged into a grounded electrical outlet.
- Make sure that the main power switch and power button are turned on.
- Make sure that the selected video input source is connected to a working component.
- If your LCD TV is connected to your computer in VGA mode, press any key on your keyboard to “wake” your computer.

You see a distorted picture or hear unusual sound

- You may be getting interference from electrical appliances, cars, motorcycles, or fluorescent lights. Try moving your LCD TV to another location.

The color is abnormal

- Make sure that the input source cable is connected securely and correctly to your LCD TV.

The picture has abnormal patterns

- Make sure that the input source cable is attached securely and correctly.
- Make sure that the video input source is within the range of your LCD TV. Compare the video input source’s specifications with your LCD TV specifications.

The display image does not cover the entire screen

- If you are using DVI-D or VGA mode, make sure that the H-Position and V-Position in the OSD is set correctly. See “Using the OSD” on page 28.

You can see a picture but you cannot hear sound

- Make sure that the volume is not turned down.
- Make sure that the sound is not muted.
- Make sure that your audio input source cables are connected securely and correctly.

The LCD TV has pixels that are always bright, dark, or colored

- Your LCD TV is manufactured using an extremely high level of precision technology. However, sometimes some pixels of your LCD TV may not display correctly. Pixel defects within industry specifications are inherent to this type of product and do not constitute a defective product.

You see "noise" or "trash" on the screen

- When your LCD TV's digital capabilities exceed a digital broadcast signal, the signal is up-converted (increased) to match your LCD TV's display capabilities. Up-converting can cause noise or trash.
- The signal on DVI-D is HDCP encoded. Stop and restart the source.

Screen brightness is diminished

- Video display devices experience degradation of brightness over the life of the device. Normal brightness degradation is not covered by your warranty.

Support

If this troubleshooting information does not resolve your problem or if you have other questions relating to your LCD TV, visit www.support.gateway.com.

You can also call our Service Center at 888-737-MyGW (6949).

Safety, Regulatory, and Legal Information

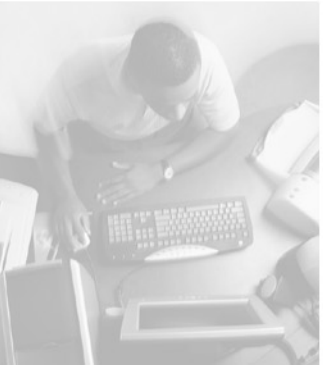
A

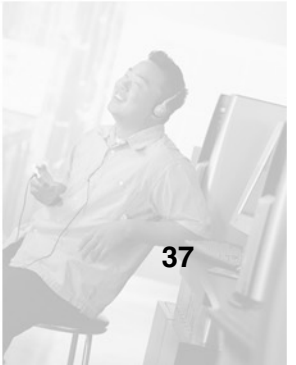
Regulatory compliance statements

United States of America

Federal Communications Commission (FCC)
Unintentional emitter per FCC Part 15

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.





This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment to an outlet on a different circuit from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

Compliance Accessories: The accessories associated with this equipment are: shielded video cable when an external monitor is connected. These accessories are required to be used in order to ensure compliance with FCC rules.

FCC declaration of conformity

Responsible party:

Gateway Companies, Inc.
610 Gateway Drive, North Sioux City, SD 57049
(605) 232-2000 Fax: (605) 232-2023

Product:

- GTW-L23M103 LCD TV
- GTW-L26M103 LCD TV

This device complies with Part 15 of the FCC Rules. Operation of this product is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution

Changes or modifications not expressly approved by Gateway could void the FCC compliance and negate your authority to operate the product.

Canada

Industry Canada (IC)
Unintentional emitter per ICES-003

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of Industry Canada.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Classe B prescrites dans le règlement sur le brouillage radioélectrique édicté par Industrie Canada.

California Proposition 65 Warning

Warning

This product contains chemicals, including lead, known to the State of California to cause cancer and/or birth defects or reproductive harm.

Television antenna connectors protection (for systems fitted with TV/cable TV tuner cards)

External television antenna grounding

If an outside antenna or cable system is to be connected to your Gateway PC, make sure that the antenna or cable system is electrically grounded to provide some protection against voltage surges and static charges.

Article 810 of the National Electrical Code, ANSI/NFPSA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Lightning protection

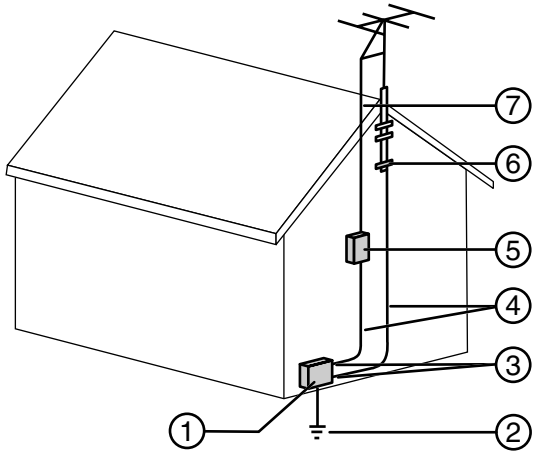
For added protection of any Gateway product during a lightning storm or when it is left unattended or unused for long periods of time, unplug the product from the wall outlet and disconnect the antenna or cable system.

Power lines

Do not locate the antenna near overhead light or power circuits, or where it could fall into such power lines or circuits.

Warning

When installing or realigning an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits. Contact with them could be fatal.



Antenna and satellite grounding

Reference	Grounding component
1	Electric service equipment
2	Power service grounding electrode system (NEC Art 250, Part H)
3	Ground clamps
4	Grounding conductors (NEC Section 810-21)
5	Antenna discharge unit (NEC Section 810-20)
6	Ground clamp
7	Antenna lead-in wire

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Poway, CA 92064 USA

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